Index to Volume 113

No. 1

Quality Assurance 5

D. A. Becker (Gaithersburg, MD, USA)
Primary standards in activation analysis 5

L. H. Christensen, K. Heydorn (Roskilde, Denmark)
Quality assurance in the determination of overlapping peak areas 19

R. F. Fleming, R. M. Lindstrom (Gaithersburg, MD, USA)
Precise determination of aluminium by instrumental neutron activation 35

J. N. Grossman, P. A. Baedecker (Reston, Virginia, USA)
Computer graphics for quality control in the INAA of geological samples 43

Chr. Segebade, B. F. Schmitt (Berlin)
Analysis of high-purity material – A comparison of photon activation analysis with other instrumental methods 61

Ultratrace Analysis

X. Z. Qian, X. X. Li, X. Y. Mao, C. F. Chai (Beijing, The People's Republic of China)
An investigation of concentration variations of trace elements during storage of natural water samples 77

R. Michel, F. Löer, M. Nolte, M. Reich, J. Zilkens (Hannover, Aachen, Köln and Viersen, FRG)
Neutron activation analysis of human tissues, organs and body fluids to describe the interaction of orthopaedic implants made of cobalt-chromium alloy with the patients organism 83

R. Zeisler, I. Young (Gaithersburg, MD and Bethesda, MD, USA)
The determination of chromium-50 in human blood and its utilization for blood volume measurements 97

M. Simonoff, Y. Llabador, C. Hamon, B. Berdeu, G. Simonoff, C. Conri, B. Fleury, P. Couzigou, A. Lucena (Gradignan and Pessac, France)
Vanadium in depression and cirrhosis 107

P. Englert, U. Herpers, R. Sarafin, St. Vogt (Köln, FRG)
Exposure history of meteorites as deduced by sub-nanogram quantities of ^{53}Mn determined by radiochemical neutron activation analysis 119

H. T. Millard, Jr. (Denver, Colorado, USA)
Neutron activation determination of iridium, gold, platinum, and silver in geologic samples 125

A. Cocherie, M. Volfinger, G. Meyer (Orléans and Gif-sur-Yvette, France)
Determination of the noble metals in chromites and other geological materials by radiochemical neutron activation analysis 133

Comparators

F. De Corte, A. Simonits, A. De Wispelaere, J. Hoste (Gent, Belgium and Budapest, Hungary)
Accuracy and applicability of the k_0-standardization method 145

X. Z. Feng (Beijing, The People's Republic of China)
Neutron activation R-matrix elements and κ-matrix elements and neutron energy spectra 163

X. Z. Feng, S. H. Lo, G. K. Ji, Y. Jiang, Y. P. Xu (Beijing, The People's Republic of China)
The correlations among various elements in neutron activation analysis – The evaluation of R-matrix and κ-matrix 169

S. Jovanović, F. De Corte, A. Simonits, L. Moens, P. Vukotić, J. Hoste (Titograd, Yugoslavia, Gent, Belgium and Budapest, Hungary)
The effective resonance energy as a parameter in (n, γ) activation analysis with reactor neutrons 177

A. Simonits, F. De Corte, A. De Wispelaere, J. Hoste (Budapest, Hungary and Gent, Belgium)
Nuclear data measurements for zirconium isotopes used for activation analysis and neutron metrology 187

M. Koyama, R. Matsushita, J. Takada (Osaka, Japan)
Reactor neutron activation analysis by using multi-elemental comparators: problems of nuclear constants of ^{128}I, ^{175}Yb and several other nuclides 199

J. C. Rouchaud, L. Debove, M. Fedoroff, L. M. Mosulishvili, V. Yu. Dundua, N. E. Kharabadze, N. I. Shonia, E. Yu. Efremova, N. V. Chikhladze (Vitry, France and Tbilisi, USSR)
A comparison of synthetic irradiation-resistant multielement standards for activation analysis 209

M. Rossbach, M. Stoeppler (Jülich, FRG)
Use of CRM's as mutual calibrating materials and control of synthetic multielement standards as used in INAA 217

Reference Materials

R. R. Greenberg (Gaithersburg, MD, USA)
The role of neutron activation analysis in the certification of NBS Standard Reference Materials 233

S. A. Kerr, R. A. Oliver, P. Vittoz, G. Vivier, F. Hoyler, T. D. MacMahon, N. I. Ward (Grenoble, France and Ascot, Berks., UK)
Elemental concentrations in geochemical reference samples by neutron capture prompt gamma-ray spectroscopy 249

Ch. Berthelot, H. L. Eschbach, V. Verdingh, F. Verheyen (Geel, Belgium)
The application of photon activation analysis for the characterization of uranium minerals 259

E. Damsgaard, K. Heydorn (Roskilde, Denmark)
Synthesis of precision for the certification of phosphorus in biological materials by INAA 267

E. A. Lepel, J. C. Laul (Richland, Washington, USA)
Trace rare earth element analysis of IAEA Hair (HH-1), Animal Bone (H-5) and other biological standards by radiochemical neutron activation 275

L. Song, T. D. MacMahon, N. I. Ward (Langfang, Hebei Province, China, Ascot, Berks., England and Guildford, Surrey, England)
Determination of 34 elements in Chinese geochemical standard reference materials by instrumental neutron activation analysis 285

J. Versieck, J. Hoste, L. Vanballenberghe, A. De Kesel, D. Van Renterghem (Gent, Belgium)
Collection and preparation of a second generation biological reference material for trace element analysis 299

Definitions and Terms 305

No. 2

Industry

C. Birattari, M. Bonardi, M. C. Cantone (Milano, Italy)
Determination of arsenic in silicon matrices by proton activation analysis 309

G. Erdtmann, B. Kröner (Jülich, FRG)
Determination of lithium in graphite by neutron activation analysis 317

M. Gavrilas, V. P. Guinn (Irvine, California, USA)
Environmental importance of the $^{107}Ag(n,\gamma)^{108}Ag^{m}$ reaction in nuclear power reactors, and new δ_{γ}^{0} and I_{γ} measurements 327

K. Kobayashi, T. Shigematsu (Tokai, Ibaraki-ken, Japan)
Trace determination of iron, cobalt, nickel, and copper in zirconium fluoride by substoichiometric radioactivation analysis 333

S. May, Ch. Engelmann, G. Pinte (Gif-sur-Yvette, France)
Neutron activation determination of ^{237}Np in irradiated experimental fuels and in waste solutions and distribution studies in sea-water and submarine fauna and flora of disposal areas 343

N. N. Papadopoulos (Attiki, Greece)
Development of activation techniques for extensive requirements in uranium and multielement analysis 351

M. B. A. Vasconcellos, M. J. A. Armelin, A. M. G. Figueiredo, B. P. Mazzilli, M. Saiki (São Paulo, Brasil)
A comparative study of some nuclear methods for $^{235}U/^{238}U$ isotopic ratios determination 357

P. Bode, P. J. M. Korthoven, M. de Bruin (Delft, The Netherlands)
Microprocessor-controlled facility for INAA using short half-life nuclides 371

T. Z. Hossain, P. M. Zeitzoff (Rochester, New York, USA)
Determination of boron by the neutron depth profile (NDP) technique for VLSI processing application 379

J. S. Petler, M. C. Underwood, K. Randle (Sunbury-on-Thames, Middlesex and Birmingham, England)
Bulk material analysis using 14 MeV neutrons 383

M. J. J. Theunissen, H. J. J. Jaspers, J. M. G. Hanssen, M. L. Verheijke (Eindhoven, The Netherlands)
Neutron activation analysis of the process of metal gettering in silicon slices 391

M. L. Verheijke, H. J. J. Jaspers, J. M. G. Hanssen, M. J. J. Theunissen (Eindhoven, The Netherlands)
Application of neutron activation analysis in the field of silicon technology for the modern electronic industry 397

Biology

O. A. Akanle, N. M. Spyrou, A. A. Damyanova, D. M. Shaw, L. Ali (Guildford, Surrey, England and Cardiff, Wales, UK)
Investigation of elemental models in senile dementia and depressives using neutron activation analysis 405

N. M. Spyrou, F. A. Balogun, G. Davies (Guildford, Surrey, UK)
Investigation of elemental distributions within a biological sample using neutron activation tomography 417

W. C. Cunningham (Washington, DC, USA)
Radiochemical determination of As, Cr, Mo, Sb and Se in foods 423

A. A. Damyanova, O. B. Akanle, N. M. Spyrou (Guildford, Surrey, England)
Changes in the elemental content of blood components by selenium supplements in humans 431

M. Esposito, P. Collecchi, M. Oddone, S. Meloni (Genova and Pavia, Italy)
Platinum assay by neutron activation analysis and atomic absorption spectroscopy in cisplatin treated pregnant mice 437

A. P. Grimanis, M. Pertessis-Keis (Athens, Greece)
Simultaneous determination of mercury and selenium in biological materials by radiochemical neutron activation analysis 445

I. G. Gökmen, G. E. Gordon, N. K. Aras (College Park, MD, USA)
Application of different activation analysis techniques for determination of trace elements in human blood 453

S. Trebert Haeberlin, F. Lux, J. Karl, T. Spruss, H. Schönenberger (Garching and Regensburg, FRG)
Determination of platinum and biologically important trace elements in structure-activity relationship studies on platinum-containing anti-cancer drugs 461

J. L. Irigaray, H. Elmir, D. Pepin, P. Y. Communal (Aubière and Clermont-Ferrand, France)
Study of arsenic reabsorption in the body by the neutron activation analysis after thermal springs treatments 469

R. W. Jenkins, Jr., H. J. Grubbs, R. H. Newman, R. T. Bass, J. S. Brenizer, D. C. Jones, T. G. Williamson, D. A. Danehower, R. C. Long (Richmond and Charlottesville, Virginia, and Raleigh, North Carolina, USA)
The distribution of selected inorganic elements in tobacco by instrumental neutron activation analysis 477

K. Kostić, R. J. Dražković, M. Djordjević, D. Kostić(Beograd, Yugoslavia)
The protocol proposal for the sampling of pathologically altered liver tissues 487

L. G. Stephens-Newsham, M. J. M. Duke, T. R. Overton, D. Ng (Edmonton, Alberta, Canada)
Comparison of elemental composition of hair between osteoporotic and normal women by instrumental neutron activation analysis 495

N. I. Ward, T. D. MacMahon, J. A. Mason (Guildford, Surrey and Ascot, Berkshire, England)
Elemental analysis of human placenta by neutron irradiation and gamma-ray spectrometry (standard, prompt and fast-neutron) 501

N. I. Ward, J. A. Mason (Guildford, Surrey and Ascot, Berkshire, England)
Neutron activation analysis techniques for identifying elemental status in Alzheimer's disease 515

J. E. Whitley, T. Stack, C. Miller, P. J. Aggett, D. J. Lloyd (Glasgow and Aberdeen, Scotland)
Determination of ^{58}Fe and ^{65}Cu enriched stable isotopic tracers in studies of mineral metabolism of babies 527

Definitions and Terms 539

Index to Volume 113 543

Author Index to Volume 113

AGGET, P. J., *see* WHITLEY, J. E., 527

AKANLE, O. A., SPYROU, N. M., DAMYANOVA, A. A., SHAW, D. M., ALI, L.: Investigation of elemental models in senile dementia and depressives using NAA, 405

AKANLE, O. A., *see* DAMYANOVA, A. A., 431

ALI, L., *see* AKANLE, O. A., 405

ARAS, N. K., *see* GÖKMEN, I. G., 453

ARMELIN, M. J. A., *see* VASCONCELLOS, M. B. A., 357

BAEDECKER, P. A., *see* GROSSMAN, J. N., 43

BALOGUN, F. A., *see* SPYROU, N. M., 417

BASS, R. T., *see* JENKINS, R. W., Jr., 477

BECKER, D. A.: Primary standards in activation analysis, 5

BERDEU, B., *see* SIMONOFF, M., 107

BERTHELOT, CH., ESCHBACH, H. L., VERDINGH, V., VERHEYEN, F.: The application of photon activation analysis for the characterization of uranium minérals, 259

BIRATTARI, C., BONARDI, M., CANTONE, M.: Determination of arsenic in silicon matrices by proton activation analysis, 309

BODE, P., KORTHOVEN, P. J. M., DE BRUIN, M.: Microprocessor-controlled facility for INAA using short half-life nuclides, 371

BONARDI, M., *see* BIRATTARI, C., 309

BRENIZER, J. S., *see* JENKINS, R. W., Jr., 477

BRUIN, DE, M., *see* DE BRUIN, M.

CANTONE, M., *see* BIRATTARI, C., 309

CHAI, C. F., *see* QIAN, X. Z., 77

CHIKHLADZE, N. V., *see* ROUCHAUD, J. C., 209

CHRISTENSEN, L. H., HEYDORN, K.: Quality assurance in the determination of overlapping peak areas, 19

COCHERIE, A., VOLFINGER, M., MEYER, G.: Determination of the noble metals in chromites and other geological materials by radiochemical NAA, 133

COLLECCHI, P., *see* ESPOSITO, M., 437

COMMUNAL, P. Y., *see* IRIGARAY, J. L., 469

CONRI, C., *see* SIMONOFF, M., 107

CORTE, DE, F., *see* DE CORTE, F.

COUZIGOU, P., *see* SIMONOFF, M., 107

CUNNINGHAM, W. C.: Radiochemical determination of As, Cr, Mo, Sb and Se in foods, 423

DAMSGAARD, E., HEYDORN, K.: Synthesis of precision for the certification of phosphorus in biological materials by INAA, 267

AUTHOR INDEX

DAMYANOVA, A. A., AKANLE, O. A., SPYROU, N. M: Changes in the elemental content of blood components by selenium supplement in humans, 431

DAMYANOVA, A. A., *see* AKANLE, O. A., 405

DANEHOWER, D. A., *see* JENKINS, R. W., Jr., 477

DAVIES, G., *see* SPYROU, N. M., 417

DEBOVE, L., *see* ROUCHAUD, J. C., 209

DE BRUIN, M., *see* BODE, P., 371

DE CORTE, F., SIMONITS, A., DE WISPELAERE, A., HOSTE, J.: Accuracy and applicability of the k_0-standardization method, 145

DE CORTE, F., *see* JOVANOVIĆ, S., 177

DE CORTE, F., *see* SIMONITS, A., 187

DE KESEL, A., *see* VERSIECK, J., 299

DE WISPELAERE, A., *see* DE CORTE, F., 145

DE WISPELAERE, A., *see* SIMONITS, A., 187

DJORDJEVIĆ, M., *see* KOSTIĆ, K., 487

DRASKOVIĆ, R. J., *see* KOSTIĆ, K., 487

DUKE, M. J. M., *see* STEPHENS-NEWSHAM, L. G., 495

DUNDUA, V. YU., *see* ROUCHAUD, J. C., 209

EFREMOVA, E. YU., *see* ROUCHAUD, J. C., 209

ELNIMR, H., *see* IRIGARAY, J. L., 469

ENGELMANN, CH., *see* MAY, S., 343

ENGLERT, P., HERPERS, U., SARAFIN, R., VOGT, ST.: Exposure history of meteorites as deduced by subnanogram quantitites of ^{53}Mn determined by radiochemical NAA, 119

ERDTMANN, G., KRÖNER, B.: Determination of lithium in graphite by NAA, 317

ESCHBACH, H. L., *see* BERTHELOT, CH., 259

ESPOSITO, M., COLLECCHI, P., ODDINE, M., MELONI, S.: Platinum assay by NAA and atomic absorption spectroscopy in cisplatin treated pregnant mice, 437

FEDOROFF, M., *see* ROUCHAUD, J. C., 209

FENG, X. Z.: Neutron activation R-matrix elements and κ-matrix elements and neutron energy spectra, 163

FENG, X. Z., LO, S. H., JI, G. K., JIANG, Y., XU, Y. P.: The correlations among various elements in NAA – The evaluation of R-matrix and κ-matrix, 169

FIGUEIREDO, A. M. G., *see* VASCONCELLOS, M. B. A., 357

FLEMING, R. F., LINDSTROM, R. M.: Precise determination of aluminium by INA, 35

FLEURY, B., *see* SIMONOFF, M. 107

GAVRILAS, M., GUINN, V. P.: Environmental importance of the ^{107}Ag(n, γ)^{108}Ag^{m} reaction in nuclear power reactors, and new σ_γ^0 and I_γ measurements, 327

GÖKMEN, I. G., GORDON, G. E., ARAS, N. K.: Application of different activation analysis techniques for determination of trace elements in human blood, 453

GORDON, G. E., *see* GÖKMEN, I. G., 453

GREENBERG, R. R.: The role of NAA in the certification of NBS Standard Reference Materials, 233

GRIMANIS, A. P., PERTESSIS-KEIS, M.: Simultaneous determination of mercury and

selenium in biological materials by radiochemical NAA, 445

GROSSMAN, J. N., BAEDECKER, P. A.: Computer graphics for quality control in the INAA of geological samples, 43

GRUBBS, H. J., *see* JENKINS, R. W., Jr., 477

GUINN, V. P., *see* GAVRILAS, M., 327

HAEBERLIN, TREBERT, S., *see* TREBERT HAEBERLIN, S.

HAMON, C., *see* SIMONOFF, M., 107

HANSSEN, J. M. G., *see* THEUNISSEN, M. J. J., 391

HANSSEN, J. M. G., *see* VERHEIJKE, M. L., 397

HERPERS, U., *see* ENGLERT, P., 119

HEYDORN, K., *see* CHRISTENSEN, L. H., 19

HEYDORN, K., *see* DAMSGAARD, E., 267

HOSSAIN, T. Z., ZEITZOFF, P. M.: Determination of boron by the neutron depth profile (NDP) technique for VLSI processing application, 379

HOSTE, J., *see* DE CORTE, F., 145

HOSTE, J., *see* JOVANOVIĆ, S., 177

HOSTE, J., *see* SIMONITS, A., 187

HOSTE, J., *see* VERSIECK, J., 299

HOYLER, F., *see* KERR, S. A., 249

IRIGARAY, J. L., ELNIMR, H., PEPIN, D., COMMUNAL, P. Y.: Study of arsenic reabsorption in the body by the NAA after thermal springs treatments, 469

JASPERS, H. J. J., *see* THEUNISSEN, M. J. J., 391

JASPERS, H. J. J., *see* VERHEIJKE, M. L., 397

JENKINS, R. W., Jr., GRUBBS, H. J., NEWMAN, R. H., BASS, R. T., BRENIZER, J. S., JONES, D. C., WILLIAMSON, T. G., DANEHOWER, D. A., LONG, R. C.: The distribution of selected inorganic elements in tobacco by INAA, 477

JI, G. K., *see* FENG, X. Z., 169

JIANG, Y., *see* FENG, X. Z., 169

JONES, D. C., *see* JENKINS, R. W., Jr., 477

JOVANOVIĆ, S., DE CORTE, F., SIMONITS, A., MOENS, L., VUKOTIĆ, P., HOSTE, J.: The effective resonance energy as a parameter in (n, γ) activation analysis with reactor neutrons, 177

KARL, J., *see* TREBERT HAEBERLIN, S., 461

KERR, S. A., OLIVER, R. A., VITTOZ, P., VIVIER, G., HOYLER, F., MACMAHON, T. D., WARD, N. I.: Elemental concentrations in geochemical reference samples by neutron capture prompt gamma-ray spectrosocpy, 249

KESEL, DE, A., *see* DE KESEL, A.

KHARABADZE, N. E., *see* ROUCHAUD, J. C., 209

KOBAYASHI, K., SHIGEMATSU, T.: Trace determination of iron, cobalt, nickel and copper in zirconium fluoride by substoichiometric radioactivation analysis, 333

KORTHOVEN, P. J. M., *see* BODE, P., 371

KOSTIĆ, D., *see* KOSTIĆ, K., 487

KOSTIĆ, K., DRASKOVIĆ, R. J., DJORDJEVIĆ, M., KOSTIĆ, D.: The protocol proposal for the sampling of pathologically altered liver tissues, 487

AUTHOR INDEX

KOYAMA, M., MATSUSHITA, R., TAKADA, J.: Reactor neutron activation analysis by using multi-elemental comparators: problems of nuclear constants of ^{128}I, ^{175}Yb and several other nuclides, 199

KRÖNER, B., *see* ERDTMANN, G., 317

LAUL, J. C., *see* LEPEL, E. A., 275

LEPEL, E. A., LAUL, J. C.: Trace rare earth element analysis of IAEA Hair (HH-1), Animal Bone (H-5) and other biological standards by radiochemical neutron activation, 275

LI, X. X., *see* QIAN, X. Z., 77

LINDSTROM, R. M., *see* FLEMING, R. F., 35

LLABADOR, Y., *see* SIMONOFF, M., 107

LLOYD, D. J., *see* WHITLEY, J. E., 527

LO, S. H., *see* FENG, X. Z., 169

LÖER, F., *see* MICHEL, R., 83

LONG, R. C., *see* JENKINS, R. W., Jr., 477

LUCENA, A., *see* SIMONOFF, M., 107

LUX, F., *see* TREBERT HAEBERLIN, S., 461

MACMAHON, T. D., *see* WARD, N. I., 501

MACMAHON, T. D., *see* KERR, S. A., 249

MACMAHON, T. D., *see* SONG, L., 285

MAO, X. Y., *see* QIAN, X. Z., 77

MASON, J. A., *see* WARD, N. I., 501, 515

MATSUSHITA, R., *see* KOYAMA, M., 199

MAY, S., ENGELMANN, CH., PINTE, G.: Neutron activation determination of ^{237}Np in irradiated experimental fuels and in waste solutions and distribution studies in seawater and submarine fauna and flora of disposal areas, 343

MAZZILLI, B. P., *see* VASCONCELLOS, M. B. A., 357

MELONI, S., *see* ESPOSITO, M., 437

MEYER, G., *see* COCHERIE, A., 133

MICHEL, R., LÖER, F., NOLTE, M., REICH, M., ZILKENS, J.: NAA of human tissues, organs and body fluids to describe the interaction of orthopaedic implants made of cobalt-chromium alloy with the patients organism, 83

MILLARD, H. T., Jr.: Neutron activation determination of iridium, gold, platinum and silver in geologic samples, 125

MILLER, C., *see* WHITLEY, J. E., 527

MOENS, L., *see* JOVANOVIĆ, S., 177

MOSULISHVILI, L. M., *see* ROUCHAUD, J. C., 209

NEWMAN, R. H., *see* JENKINS, R. W., Jr., 477

NG, D., *see* STEPHENS-NEWSHAM, L. G., 495

NOLTE, M., *see* MICHEL, R., 83

ODDONE, M., *see* ESPOSITO, M., 437

OLIVER, R. A., *see* KERR, S. A., 249

OVERTON, T. R., *see* STEPHENS-NEWSHAM, L. G., 495

PAPADOPOULOS, N. N.: Development of activation techniques for extensive requirements in uranium and multielement analysis, 351

PEPIN, D., *see* IRIGARAY, J. L., 469

PERTESSIS-KEIS, M., *see* GRIMANIS, A. P., 445

PETLER, J. S., UNDERWOOD, M. C., RANDLE, K.: Bulk material analysis using 14 MeV neutrons, 383

PINTE, G., *see* MAY, S., 343

QIAN, X. Z., LI, X. X., MAO, X. Y., CHAI, C. F.: An investigation of concentration variations of trace elements during storage of natural water samples, 77

RANDLE, K., *see* PETLER, J. S., 383

REICH, M., *see* MICHEL, R., 83

RENTERGHEM, VAN, D., *see* VAN RENTERGHEM, D.

ROSSBACH, M., STOEPPLER, M.: Use of CRM's as mutual calibrating materials and control of synthetic multielement standards as used in INAA, 217

ROUCHAUD, J. C., DEBOVE, L., FEDOROFF, M., MOSULISHVILI, L. M., DUNDUA, V. YU., KHARABADZE, N. E., SHONIA, N. I., EFREMOVA, E. YU., CHIKHLADZE, N. V.: A comparison of synthetic irradiation-resistant multielement standards for activation analysis, 209

SAIKI, M., *see* VASCONCELLOS, M. B. A., 357

SARAFIN, R., *see* ENGLERT, P., 119

SCHMITT, B. F., *see* SEGEBADE, CHR., 61

SCHÖNENBERGER, H., *see* TREBERT HAEBERLIN, S., 461

SEGEBADE, CHR., SCHMITT, B. F.: Analysis of high-purity materials – A comparison of photon activation analysis with other instrumental methods, 61

SHAW, D. M., *see* AKANLE, O. A., 405

SHIGEMATSU, T., *see* KOBAYASHI, K., 333

SHONIA, N. I., *see* ROUCHAUD, J. C., 209

SIMONITS, A., DE CORTE, F., DE WISPELAERE, A., HOSTE, J.: Nuclear data measurements for zirconium isotopes used for activation analysis and neutron metrology, 187

SIMONITS, A., *see* DE CORTE, F., 145

SIMONITS, A., *see* JOVANOVIĆ, S., 177

SIMONOFF, M., LLABADOR, Y., HAMON, C., BERDEU, B., SIMONOFF, G., CONRI, C., FLEURY, B., COUZIGOU, P., LUCENA, A.: Vanadium in depression and cirrhosis, 107

SIMONOFF, G., *see* SIMONOFF, M., 107

SONG, L., MACMAHON, T. D., WARD, N. I.: Determination of 34 elements in Chinese geochemical standard reference materials by INAA, 285

SPRUSS, T., *see* TREBERT HAEBERLIN, S., 461

SPYROU, N. M., BALOGUN, F. A., DAVIES, G.: Investigation of elemental distributions within a biological sample using neutron activation tomography, 417

SPYROU, N. M., *see* AKANLE, O. A., 405

SPYROU, N. M., *see* DAMYANOVA, A. A., 431

STACK, T., *see* WHITLEY, J. E., 527

STEPHENS-NEWSHAM, L. G., DUKE, M. J. M., OVERTON, T. R., NG, D.: Comparison of elemental composition of hair between osteoporotic and normal women by INAA, 495

STOEPPLER, M., *see* ROSSBACH, M., 217

TAKADA, J., *see* KOYAMA, M., 199

AUTHOR INDEX

THEUNISSEN, M. J. J., JASPERS, H. J. J., HANSSEN, J. M. G., VERHEIJKE, M. L.: NAA of the process of metal gettering in silicon slices, 391

THEUNISSEN, M. J. J., *see* VERHEIJKE, M. L., 397

TREBERT HAEBERLIN, S., LUX, F., KARL, J., SPRUSS, T., SCHÖNENBERGER, H.: Determination of platinum and biologically important trace elements in structure-activity relationship studies on platinum-containing anti-cancer drugs, 461

UNDERWOOD, M. C., *see* PETLER, J. S., 383

VANBALLENBERGHE, L., *see* VERSIECK, J., 299

VAN RENTERGHEM, D., *see* VERSIECK, J., 299

VASCONCELLOS, M. B. A., ARMELIN, M. J. A., FIGUEIREDO, A. M. G., MAZZILLI, B. P., SAIKI, M.: A comparative study of some nuclear methods for $^{235}U/^{238}U$ isotopic ratios determination, 357

VERDINGH, V., *see* BERTHELOT, CH., 259

VERHEIJKE, M. L., JASPERS, H. J. J., HANSSEN, J. M. G., THEUNISSEN, M. J. J.: Application of NAA in the field of silicon technology for the modern electronic industry, 397

VERHEIJKE, M. L., *see* THEUNISSEN, M. J. J., 391

VERHEYEN, F., *see* BERTHELOT, CH., 259

VERSIECK, J., HOSTE, J., VANBALLENBERGHE, L., DE KESEL, A., VAN RENTERGHEM, D.: Collection and preparation of a second generation biological reference material for trace element analysis, 299

VITTOZ, P., *see* KERR, S. A., 249

VIVIER, G., *see* KERR, S. A., 249

VOGT, ST., *see* ENGLERT, P., 119

VOLFINGER, M., *see* COCHERIE, A., 133

VUKOTIĆ, P., *see* JOVANOVIĆ, S., 177

WARD, N. I., MACMAHON, T. D., MASON, J. A.: Elemental analysis of human placenta by neutron irradiation and gamma-ray spectrometry (standard, prompt and fast-neutron), 501

WARD, N. I., MASON, J. A.: NAA techniques for identifying elemental status in Alzheimer's disease, 515

WARD, N. I., *see* KERR, S. A., 249

WARD, N. I., *see* SONG, L., 285

WHITLEY, J. E., STACK, T., MILLER, C., AGGETT, P. J., LLOYD, D. J.: Determination of ^{58}Fe and ^{65}Cu enriched stable isotopic tracers in studies of mineral metabolism of babies, 527

WILLIAMSON, T. G., *see* JENKINS, R. W., Jr., 477

WISPELAERE, DE, A., *see* DE WISPELAERE, A.

XU, Y. P., *see* FENG, X. Z., 169

YOUNG, I., *see* ZEISLER, R., 97

ZEISLER, R., YOUNG, I.: The determination of chromium-50 in human blood and its utilization for blood volume measurements, 97

ZEITZOFF, P. M., *see* HOSSAIN, T. Z., 379

ZILKENS, J., *see* MICHEL, R., 83